

AQRP Monthly Technical Report

PROJECT TITLE	Quantifying Ozone Production from Light Alkenes Using Novel Measurements of Hydroxynitrate Reaction Products in Houston	PROJECT #	14-026
PROJECT PARTICIPANTS	Dr. Tom Ryerson (NOAA) Dr. Greg Yarwood (ENVIRON) Dr. David Parrish	DATE SUBMITTED	10/7/2014
REPORTING PERIOD	From: September 1, 2014 To: September 30, 2014	REPORT #	4

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. I understand that the FSR and Invoice are due to the AQRP by the 15th of the month following the reporting period shown above.

Detailed Accomplishments by Task

Because a contractual agreement between Caltech and AQRP could not be reached, Caltech has withdrawn from this project. However, Caltech is still conducting the hydroxynitrate data QA/QC (that was to be conducted for Task 1) under a NASA contract and expects to deliver the data to the SEAC⁴RS data archive in October 2014. Taking this into account, ENVIRON submitted a revised Work Plan and QAPP to AQRP on August 21, 2014. In the revised scope of work, Dr. David Parrish, under subcontract to ENVIRON, will collaborate with Caltech in completing the remaining components of Task 1, as well as with NOAA to conduct data analysis in Task 2. AQRP approved the revisions to the Work Plan on September 11, 2014 and notified ENVIRON of the approval on September 15, 2014. Subsequently, a subcontracting agreement between ENVIRON and Dr. Parrish was reached on the basis of the revised Work Plan and Dr. Parrish will commence work on obtaining the QA/QC'd data from Caltech and reviewing it prior to the data analysis to be conducted in Task 2 and the plume modeling to be conducted in Task 3. NOAA and ENVIRON also signed a subcontracting agreement for Task 2 activities. In the meantime, ENVIRON completed the implementation of the CB6r2 mechanism in SCICHEM and will be conducting tests to ensure that the implementation has been done correctly, and make any changes necessary as a result of the testing.

Preliminary Analysis

Data Collected

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

Goals and Anticipated Issues for the Succeeding Reporting Period

Detailed Analysis of the Progress of the Task Order to Date

Submitted to AQRP by: Greg Yarwood

Principal Investigator: Tom Ryerson